

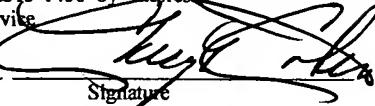
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**Theft Deterrent Backpack**

**Background of the Invention**

**1. Field of the Invention**

10        The present invention is directed to backpacks and, in particular, a backpack that substantially prohibits and deters theft of the contents stored therein.

**2. Description of Related Art**

15        Backpacks have been widely used as a means for advantageously freeing ones arms while carrying objects. Today, backpacks are used by students of all ages to carry their belongings to school. Backpacks are often used on vacations as well and are quite advantageous in that they free the user's hands allowing them to guide themselves using a map, hold a bottle of water, take a photograph  
20        or simply hold a child's hand. Historically, backpacks were used by outdoor enthusiasts (e.g., hikers) and casual dressed individuals (e.g., students or travelers). In the last several years backpacks have become quite stylish and have reached the designer markets. Today, backpacks are manufactured in leather and other fine quality materials sold by top designers to women for use as  
25        an alternative to a handbag. Backpacks have gained widespread acceptance, in

particular, in large urban cities in which individuals are interested in following fashion trends.

A conventional backpack, for example, as disclosed in U.S. Patent Nos. 6,053,382 and D415,344, comprises a front panel, a back panel and a side panel. The zipper that permits entry into the main compartment is disposed exclusively along the side panel. To provide more organization dividers or pockets may be sewn into the interior of the main compartment. In addition, exterior pockets may be disposed along the back panel, side panel and/or front panel. Each pocket generally has its own releasable securing device, e.g., a zipper, for entry into the associated subcompartment.

This conventional zipper configuration is disadvantageous in that when worn, as intended on one's back, the zipper opening disposed on the side panel permits access by thieves to the contents stored in the main compartment while out of the wearer's visual sight. Depending on the contents stored inside the main compartment of the backpack this poses various concerns. When on a trip, the traveler often stores their wallet, passport, airline tickets, camera and/or video camcorder in their backpack. Likewise, designer backpacks are typically used by women in lieu of a pocketbook in which they store their wallet in the main compartment. Often you will see a tourist with the backpack purposefully worn against their chest rather than their back so that the wearer can visually watch to prohibit stealing of their valuables. The backpack, however, is bulky and, if heavy, can cause hunching forward creating inappropriate posture and potential back pain when worn on one's chest instead of back.

One conventional alternative to combat thievery is to resort to using a separate locking device similar to that used for a piece of luggage. Conventional backpacks typically have a zipper disposed about the side panel, e.g., where the front panel and side panel are assembled together, and two pull tabs are employed to access the main compartment via the zipper. Entry into the backpack may be prohibited by securing the pull tabs together and passing a lock through an aperture defined in each pull tab. This is disadvantageous for several reasons. The backpack is generally not sold with the locking device and

thus the consumer must acquire this separate component on their own. Even if the lock and backpack were sold together the extra expense of the lock would increase the overall cost of the backpack. In addition, locks are commonly manufactured from a metal that adds extra weight to the backpack. If the lock is 5 a combination lock, then the user must remember the combination in order to access the contents of the backpack. Alternatively a keyed entry lock is disadvantageous in that the key must be stored in a location other than in the backpack thereby defeating the underlying purpose of the backpack, i.e., to store all your valuables. The key itself may also be lost, stolen or misplaced.

10 Another conventional means for tamper proofing the main compartment in lieu of using locks is to provide access to the main compartment exclusively via a zipper whose terminating ends are both disposed along the back panel, hereinafter referred to as a two-dimensional zipper, i.e., a zipper disposed exclusively along a single panel. Because the zipper is disposed along only a 15 single panel, i.e., the back panel, the size of the opening and thus access to the contents of the main compartment is severely restricted by the length of the zipper chain. It is therefore difficult to view the objects in the main compartment in order located a particular object without feeling around. Furthermore, the size of an object to be placed in the main compartment is limited by what fits through 20 the zipper disposed only along the back panel despite the fact that the main compartment is typically sized to accommodate a significantly larger object.

Accordingly, it is desirable to develop a theft deterrent backpack without employing a separate locking device that readily permits removal of an object from the main compartment of a size limited only by the dimension or capacity of 25 the main compartment itself.

### Summary of the Invention

The present invention is directed to a theft deterrent backpack that substantially prohibits stealing of the contents in its main compartment while 30 being worn by a user.

A theft deterrent backpack including at least two panels forming a main compartment. The at least two panels include a back panel and a second panel, other than the back panel. The backpack also includes a releasable securing device for accessing the main compartment; the releasable securing device, for example, a zipper, having a beginning end and a terminating end. Preferably, the terminating end of the releasable securing device is disposed on the back panel and the beginning end is disposed on the second panel such as the front panel, side panel or bottom panel. When the backpack is worn, positioning of the releasable securing device in such a configuration deters access to the terminating end of the releasable securing device and hence access to the main compartment. Since the releasable securing device extends three-dimensionally along at least two panels such as the front and back panels, it provides a relatively large opening or mouth through which the main compartment may be filled limited only by the dimension or capacity of the main compartment itself.

In addition, the present invention relates to a theft deterrent backpack including at least two panels forming a main compartment. One panel is a back panel while a second panel is a panel other than the back panel. The backpack further includes a zipper chain for accessing the main compartment, wherein the zipper chain has a beginning end and a terminating end. Preferably, the zipper chain is disposed so that the terminating end is disposed on the back panel and the beginning end is disposed on the second panel.

Still another embodiment of the backpack in accordance with the present invention includes a main compartment formed by a plurality of panels, the plural panels including at least a front panel and a back panel. The backpack also includes a releasable securing device for accessing the main compartment, wherein the releasable securing device extends along two or more of the plural panels.

### **Brief Description of the Drawings**

The foregoing and other features of the present invention will be more readily apparent from the following detailed description and drawings of illustrative embodiments of the invention wherein like reference numbers refer to similar elements throughout the several views and in which:

5           Figure 1 is an exemplary front perspective view of a backpack in accordance with the present invention having a three-dimensional zippered opening for entry into the interior of the main compartment, wherein the zipper is disposed so as to extend along a plurality of panels;

10          Figure 2 is a front view of the backpack of Figure 1;

              Figure 3 is a top view of the backpack of Figure 1;

              Figure 4 is a left side view of the backpack of Figure 1;

              Figure 5 is a back view of the backpack of Figure 1;

15          Figure 6 is a right side view of the backpack of Figure 1; and

              Figure 7 is a bottom view of the backpack of Figure 1.

### **Detailed Description of the Preferred Embodiments**

20          An exemplary theft deterrent backpack 100 in accordance with the present invention is shown in Figures 1-7. As shown in the front perspective view in Figure 1, the backpack 100 includes a main compartment formed by a front panel 105, a back panel 110 (Figure 5), a bottom panel 115 (Figure 7), and a side panel 120. In addition, the backpack 100 is shown, by way of example, with an exterior pocket 140 disposed on the front panel 105. The present invention can be designed to include any number of exterior pockets, or none whatsoever. The term "back panel" is defined as that panel which at least some portion of rests against the wearer's body when worn as intended. Two shoulder straps 122 are shown, however, any number of one or more straps may be used as desired.

25          The backpack shown in Figure 1 is for illustrative purposes only and is not intended to limit the scope of the invention. Specifically, the backpack 100 need

not have a bottom and/or a side panel whereby the back and front panels, 110, 105, respectively, are affixed directly to one another. In addition, each of the front, back, bottom and side panels need not be an integral piece or unit but instead may be comprised of multiple pieces or units attached (e.g., sewn) together. It is also contemplated and within the scope of the invention that the backpack may be configured in any desired shape and from any desired material.

When assembled, e.g., sewn together, the front panel 105, back panel 110, bottom panel 115 and side panel 120 form or define a main compartment therein. The main compartment may comprise a single cavernous unit or its interior may be subdivided into multiple subcompartments using dividers and/or interior pockets to provide more organization and prevent shifting of the objects stored therein.

Access to the main compartment is provided by a three-dimensional releasable securing device 130, i.e., a releasable securing device disposed along at least two panels. By way of illustrative example, the present invention will be shown and described with a zipper as the releasable securing device. Any type of releasable securing device is permitted and within the intended scope of the invention, preferably one forming a continuous strip having only one terminating end from which disengagement of the mating components of the strip starts and only one beginning end, opposite the terminating end, from which engagement of the mating components of the strip starts. In the configuration employing a zipper chain, as shown in the figures, individual teeth elements of each half when meshed together form a continuous piece referred to as a chain. Each zipper chain has a beginning end 130' (representing that end of the zipper chain at which the slider and pull tab mounted thereto (together referred to as reference element 135) originates prior to meshing the teeth together) and an opposite terminating end 130" (representing that end of the zipper chain at which the slider 135 terminates when the teeth are meshed together as a continuous chain). In the present invention configuration, when the backpack is held substantially upright, the zipper chain 130 is disposed substantially longitudinally from the front

panel 105, across the side panel 120 and down the back panel 110. Specifically, the terminating end of the zipper chain is disposed on the back panel 110, while the opposite beginning end of the zipper chain is disposed on the front panel 105. Preferably, the terminating end of the zipper chain is adapted to extend 5 sufficiently down the back panel so that it rests against the wearer's back when the backpack is worn. Most preferably, the terminating end of the zipper chain extends at least halfway down the back panel. Otherwise, if the terminating end of the zipper chain is disposed proximate the intersection of the back panel and side panel then unwanted access to the zipper may be gained and its deterrent 10 effect may be diminished. This is particularly the case in which the top of the backpack does not lay flush against the wearer's body whereby a thief could potentially still gain access to the pull tab of the zipper if its terminating end is not disposed sufficiently down the back panel.

As previously mentioned, the side panel 120 of the backpack may be 15 eliminated, wherein the zipper chain 130 is disposed substantially longitudinally from the front panel 105 and down the back panel 110 with the positioning of the terminating and beginning ends being the same as that disclosed above when a side panel is employed.

While wearing the backpack with the zipper chain 130 engaged or zipped, 20 the placement of the terminating end of the zipper chain disposed on the back panel 110 is such that access to the slider and pull tab mounted thereto is substantially prohibited by the backpack resting against the wearer's body. Despite being able to view the beginning end of the zipper chain disposed on the front panel of the backpack, a thief can not access the zipper starting from this 25 end. Filling and emptying of the main compartment of the backpack is improved in that zipper chain is three-dimensional, i.e., the zipper chain extends over at least two panels, e.g., the front panel and back panel, providing a larger opening to insert the objects to be stored therein.

In the embodiment shown in Figure 1-7 the zipper chain is disposed 30 substantially longitudinally on the backpack. Alternatively, the zipper chain 130 can be disposed substantially laterally along the front panel 105, across the side

panel 120 and onto the back panel 110. Any positioning or placement of the zipper chain is contemplated and within the intended scope of the present invention as long as the releasable securing device extends over at least two panels and/or the terminating end of the zipper chain is disposed on the back

5 panel and the beginning end is disposed on another panel (e.g., front panel, side panel or bottom panel) other than the back panel. It should be pointed out that the zipper chain can extend over more than two panels. For example, as shown in Figures 1-7 the zipper chain extends from its terminating end to its beginning end over three panels, namely, the back panel, side panel and front panel

10 respectively.

Thus, while there have been shown, described, and pointed out fundamental novel features of the invention as applied to a preferred embodiment thereof, it will be understood that various omissions, substitutions, and changes in the form and details of the devices illustrated, and in their

15 operation, may be made by those skilled in the art without departing from the spirit and scope of the invention. For example, it is expressly intended that all combinations of those elements and/or steps that perform substantially the same function, in substantially the same way, to achieve the same results be within the scope of the invention. Substitutions of elements from one described

20 embodiment to another are also fully intended and contemplated. It is also to be understood that the drawings are not necessarily drawn to scale, but that they are merely conceptual in nature. It is the intention, therefore, to be limited only as indicated by the scope of the claims appended hereto.

Every issued patent, pending patent application, publication, journal

25 article, book or any other reference cited herein is each incorporated by reference in their entirety.